AC

California R gional Water Quality ontrol Board

Los Angeles Region

(50 Years Serving Coastal Los Angeles and Ventura Counties)

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640
Internet Address: http://www.swrcb.ca.gov/rwqcb4

Winston H. Hickox
Secretary for Environmental Protection

Gray Davis
Governor

December 19, 2001

Mr. Eric G. Reichard
U.S. Geological Survey
Los Angles Basin
5735 Kearny Villa Road, Suite "O"
San Diego, CA 92123

084

Dear Mr. Reichard:

COVERAGE UNDER GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT AND WASTE DISCHARGE REQUIREMENT – LOS ANGELES COASTAL HYDROLOGIC BASIN, SAN GABRIEL RIVER WATERSHED, CALIFORNIA (NPDES NO. CAG994002, CI-8339)

We have completed our review of your application for a permit to discharge waste under the National Pollutant Discharge Elimination System (NPDES). You are conducting a Regional hydrogeologic study and propose to discharge groundwater associated with construction, development, and sampling of monitoring wells located within San Gabriel River Watershed.

Based on the information provided, the proposed discharge of groundwater meets the conditions specified in Order No. 97-043, *General National Pollutant Discharge Elimination System Permit and Waste Discharge Requirements for Discharges of Treated Groundwater from Construction and Project Dewatering to Surface Waters in Coastal Watersheds of Los Angeles and Ventura Counties*, adopted by this Board on May 12, 1997.

Enclosed are your Waste Discharge Requirements, which also serve as your General NPDES permit, consisting of Order No. 97-043 and Monitoring and Reporting Program No. CI-8339. The discharge limitations in Part E of Order No. 97-043 are applicable to your discharge. Discharge from the project drains to San Gabriel River; therefore, the discharge limitations in Attachment A.8 are applicable to your discharge. Prior to discharge, a representative sample of the effluent shall be obtained and analyzed to determine compliance with the discharge limitations.

The Monitoring and Reporting Program requires you to implement the monitoring program on the effective date of coverage under Order No. 97-043. All monitoring reports should be sent to the Regional Board, ATTN: Information Technology Unit.

When submitting monitoring and technical reports to the Regional Board per these requirements, please include a reference to "Compliance File No. CI-8339 and NPDES No. CAG994002", which will assure that the reports are directed to the appropriate file and staff. Also, please do not combine your discharge monitoring reports with other reports. Submit each type of report as a separate document. In order to avoid future annual fees, please submit written notification when the project has been completed and the permit is no longer needed.

We are sending Board Order No. 97-043 only to the applicant. For those on the mailing list, please refer to the Board Order previously sent to you. A copy of the Order will be furnished to anyone who requests it.

If you have any questions, please contact Thizar Tintut-Williams at (213) 576-6752.

Sincerely,

Dennis A. Dickerson
Executive Officer

Enclosures: Fact Sheet
Monitoring and Reporting Program No. 8339
Board Order No. 97-043, General NPDES Permit No. CAG994002
Appendix I

cc: Environmental Protection Agency, Region 9, Clean Water Act Standards and Permits Office (WTR-5)
U.S. Army Corps of Engineers
NOAA, National Marine Fisheries Service
Department of Interior, U.S. Fish and Wildlife Service
Jim Kassel, Division of Water Quality, State Water Resources Control Board
Michael Lauffer, Office of the Chief Counsel, State Water Resources Control Board
California Department of Health Services, Drinking Water and Field Operations Branch
Los Angeles County Department of Public Works, Flood Control and Drainage
Los Angeles County Department of Environmental Health
City of Cerritos, Department of Public Works
City of Downey, Department of Public Works
City of La Mirada, Department of Public Works
City of Lakewood, Department of Public Works
City of Long Beach, Department of Public Works
City of Los Angeles, Department of Public Works
City of Pico Rivera, Department of Public Works
City of Santa Fe Springs, Department of Public Works
City of Whittier, Department of Public Works
Michael T. Land, U.S. Geological Survey

/ttw

State of California
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
320 West 4th Street, Suite 200, Los Angeles

FACT SHEET
WASTE DISCHARGE REQUIREMENTS
FOR
U.S. GEOLOGICAL SURVEY – LOS ANGELES BASIN
NPDES NO. CAG994002
CI-8339

PROJECT LOCATION
Los Angeles Coastal Hydrologic Basin
San Gabriel River Watershed, California

FACILITY MAILING ADDRESS
5735 Kearny Villa Road, Suite "O"
San Diego, CA 92123
Contact: Michael T. Land

PROJECT DESCRIPTION

The U.S. Geological Survey (USGS), in cooperation with the Water Replenishment District of Southern California, is currently studying the geology, hydrology, and geochemistry of the Los Angeles Coastal Hydrologic Basin in Los Angeles County. The purpose of the work is to characterize the regional groundwater flow system in order to provide an improved basis for evaluating groundwater issues related to management, replenishment, and protection. The USGS proposes to discharge groundwater associated with construction, development, and purging of monitoring wells in San Gabriel River Watershed.

VOLUME AND DESCRIPTION OF DISCHARGE

The USGS proposes to discharge up to 1,000 gallons per day of groundwater from forty-seven existing monitoring wells (and from additional four to eight monitoring wells in the next two years) into the San Gabriel River. A field portable granular-activated charcoal treatment system or other appropriate treatment will be used, when necessary, to remove volatile organic compounds or other contaminants prior to discharge. See Figure 1 for a schematic flow diagram. The groundwater will be discharged through existing storm drains and will flow to San Gabriel River, a water of the United States. See Table 1 for the monitoring well identifications and outfall descriptions. See Figure 2 for site locations.

FREQUENCY OF DISCHARGE

The discharges will be intermittent during construction, development, and monitoring of the wells for about five years. The discharge is proposed to begin in January 2002. Sampling at each monitoring well is proposed to be conducted for one to two days between the months of October-November and April-May. As the study progresses, it is anticipated that some of the monitoring sites may only require annual, or less frequent, sampling.

REUSE OF WATER

The discharge of groundwater from the project site into an existing sewer system or recycling facility is not cost-effective due to the following:

- Location – potential reuse from numerous monitoring sites is limited by means to deliver and obtain the purged groundwater from a single central location.
- Volume – total volume of groundwater available for reuse is estimated to be less than 12,000 gallons per year.
- Frequency – the ability to supply groundwater on-demand for reuse, as discharge from the monitoring sites will not occur more than twice per year.

Therefore, reuse is not feasible, and the wastewater will be discharged to the storm drain.

Tab' 1

I. RECEIVING WATERS - San Gabriel River

Watershed	Outfall	Latitude	Longitude	Local Designation	Permit type	Discharge type	Discharge frequency	Discharge quantity (gal)	Method of discharge
San Gabriel River	001	33° 51' 50"	-118° 03' 28"	Cerritos-1 #1	General	gw	biannual	507	storm drain, untreated
San Gabriel River	001	33° 51' 50"	-118° 03' 28"	Cerritos-1 #2	General	gw	biannual	437	storm drain, untreated
San Gabriel River	001	33° 51' 50"	-118° 03' 28"	Cerritos-1 #3	General	gw	biannual	254	storm drain, untreated
San Gabriel River	001	33° 51' 50"	-118° 03' 28"	Cerritos-1 #4	General	gw	biannual	120	storm drain, untreated
San Gabriel River	001	33° 51' 50"	-118° 03' 28"	Cerritos-1 #5	General	gw	biannual	81	storm drain, untreated
San Gabriel River	001	33° 51' 50"	-118° 03' 28"	Cerritos-1 #6	General	gw	biannual	51	storm drain, untreated
San Gabriel River	002	33° 55' 17"	-118° 08' 13"	Downey-1 #1	General	gw	biannual	511	storm drain, untreated
San Gabriel River	002	33° 55' 17"	-118° 08' 13"	Downey-1 #2	General	gw	biannual	406	storm drain, untreated
San Gabriel River	002	33° 55' 17"	-118° 08' 13"	Downey-1 #3	General	gw	biannual	243	storm drain, untreated
San Gabriel River	002	33° 55' 17"	-118° 08' 13"	Downey-1 #4	General	gw	biannual	145	storm drain, untreated
San Gabriel River	002	33° 55' 17"	-118° 08' 13"	Downey-1 #5	General	gw	biannual	100	storm drain, untreated
San Gabriel River	002	33° 55' 17"	-118° 08' 13"	Downey-1 #6	General	gw	biannual	28	storm drain, untreated
San Gabriel River	003	33° 53' 59"	-118° 00' 26"	La Mirada-1 #1	General	gw	biannual	485	storm drain, untreated
San Gabriel River	003	33° 53' 59"	-118° 00' 26"	La Mirada-1 #2	General	gw	biannual	408	storm drain, untreated
San Gabriel River	003	33° 53' 59"	-118° 00' 26"	La Mirada-1 #3	General	gw	biannual	277	storm drain, untreated
San Gabriel River	003	33° 53' 59"	-118° 00' 26"	La Mirada-1 #4	General	gw	biannual	171	storm drain, untreated
San Gabriel River	003	33° 53' 59"	-118° 00' 26"	La Mirada-1 #5	General	gw	biannual	65	storm drain, untreated
San Gabriel River	004	33° 51' 13"	-118° 09' 05"	Lakewood-1 #1	General	gw	biannual	947	storm drain, untreated
San Gabriel River	004	33° 51' 13"	-118° 09' 05"	Lakewood-1 #2	General	gw	biannual	266	storm drain, untreated
San Gabriel River	004	33° 51' 13"	-118° 09' 05"	Lakewood-1 #3	General	gw	biannual	179	storm drain, untreated
San Gabriel River	004	33° 51' 13"	-118° 09' 05"	Lakewood-1 #4	General	gw	biannual	112	storm drain, untreated
San Gabriel River	004	33° 51' 13"	-118° 09' 05"	Lakewood-1 #5	General	gw	biannual	52	storm drain, untreated
San Gabriel River	004	33° 51' 13"	-118° 09' 05"	Lakewood-1 #6	N/A	N/A	provisional	N/A	method in development

I. RECEIVING WATERS - San Gabriel River

Watershed	Outfall	Latitude	Longitude	Local Designation	Permit type	Discharge type	Discharge frequency	Discharge quantity (gal)	Method of discharge
San Gabriel River	005	33° 48' 53"	-118° 05' 15"	Long Beach-1 #1	General	gw	biannual	644	storm drain, untreated
San Gabriel River	005	33° 48' 53"	-118° 05' 15"	Long Beach-1 #2	General	gw	biannual	552	storm drain, untreated
San Gabriel River	005	33° 48' 53"	-118° 05' 15"	Long Beach-1 #3	General	gw	biannual	422	storm drain, untreated
San Gabriel River	005	33° 48' 53"	-118° 05' 15"	Long Beach-1 #4	General	gw	biannual	258	storm drain, untreated
San Gabriel River	005	33° 48' 53"	-118° 05' 15"	Long Beach-1 #5	N/A	N/A	provisional	N/A	method in development
San Gabriel River	005	33° 48' 53"	-118° 05' 15"	Long Beach-1 #6	General	gw	biannual	61	storm drain, untreated
San Gabriel River	006	34° 60' 05"	-118° 05' 33"	Pico Rivera-1 #2	General	gw	biannual	201	storm drain, untreated
San Gabriel River	006	34° 60' 05"	-118° 05' 33"	Pico Rivera-1 #3	General	gw	biannual	164	storm drain, untreated
San Gabriel River	006	34° 60' 05"	-118° 05' 33"	Pico Rivera-1 #4	General	gw	biannual	67	storm drain, untreated
San Gabriel River	007	33° 58' 17"	-118° 05' 13"	Pico Rivera-2 #1	General	gw	biannual	522	storm drain, untreated
San Gabriel River	007	33° 58' 17"	-118° 05' 13"	Pico Rivera-2 #2	General	gw	biannual	362	storm drain, untreated
San Gabriel River	007	33° 58' 17"	-118° 05' 13"	Pico Rivera-2 #3	General	gw	biannual	241	on-site treatment; storm drain
San Gabriel River	007	33° 58' 17"	-118° 05' 13"	Pico Rivera-2 #4	General	gw	biannual	137	storm drain, untreated
San Gabriel River	007	33° 58' 17"	-118° 05' 13"	Pico Rivera-2 #5	General	gw	biannual	98	storm drain, untreated
San Gabriel River	007	33° 58' 17"	-118° 05' 13"	Pico Rivera-2 #6	General	gw	biannual	41	storm drain, untreated
San Gabriel River	008	33° 56' 47"	-118° 03' 43"	Santa Fe Springs-1 #1	N/A	N/A	provisional	N/A	method in development
San Gabriel River	008	33° 56' 47"	-118° 03' 43"	Santa Fe Springs-1 #2	N/A	N/A	provisional	N/A	method in development
San Gabriel River	008	33° 56' 47"	-118° 03' 43"	Santa Fe Springs-1 #3	N/A	N/A	provisional	N/A	method in development
San Gabriel River	008	33° 56' 47"	-118° 03' 43"	Santa Fe Springs-1 #4	General	gw	biannual	75	storm drain, untreated
San Gabriel River	009	33° 56' 09"	-117° 60' 57"	Whittier-1 #1	N/A	N/A	provisional	N/A	method in development
San Gabriel River	009	33° 56' 09"	-117° 60' 57"	Whittier-1 #2	N/A	N/A	provisional	N/A	method in development
San Gabriel River	009	33° 56' 09"	-117° 60' 57"	Whittier-1 #3	General	gw	biannual	235	storm drain, untreated
San Gabriel River	009	33° 56' 09"	-117° 60' 57"	Whittier-1 #4	N/A	N/A	provisional	N/A	method in development
San Gabriel River	009	33° 56' 09"	-117° 60' 57"	Whittier-1 #5	N/A	N/A	provisional	N/A	method in development

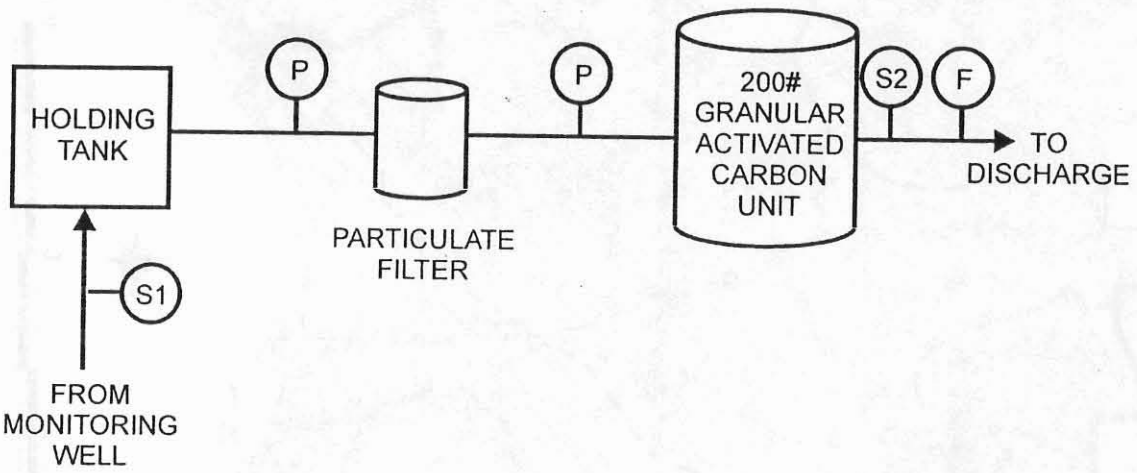
USFilter

Figure 1

John Myrick
Account Manager
Westates

15319 CARMENITA ROAD
SANTA FE SPRINGS, CA 90670

TELEPHONE (562) 229-9606
FACSIMILE (562) 229-9735



EXPLANATION

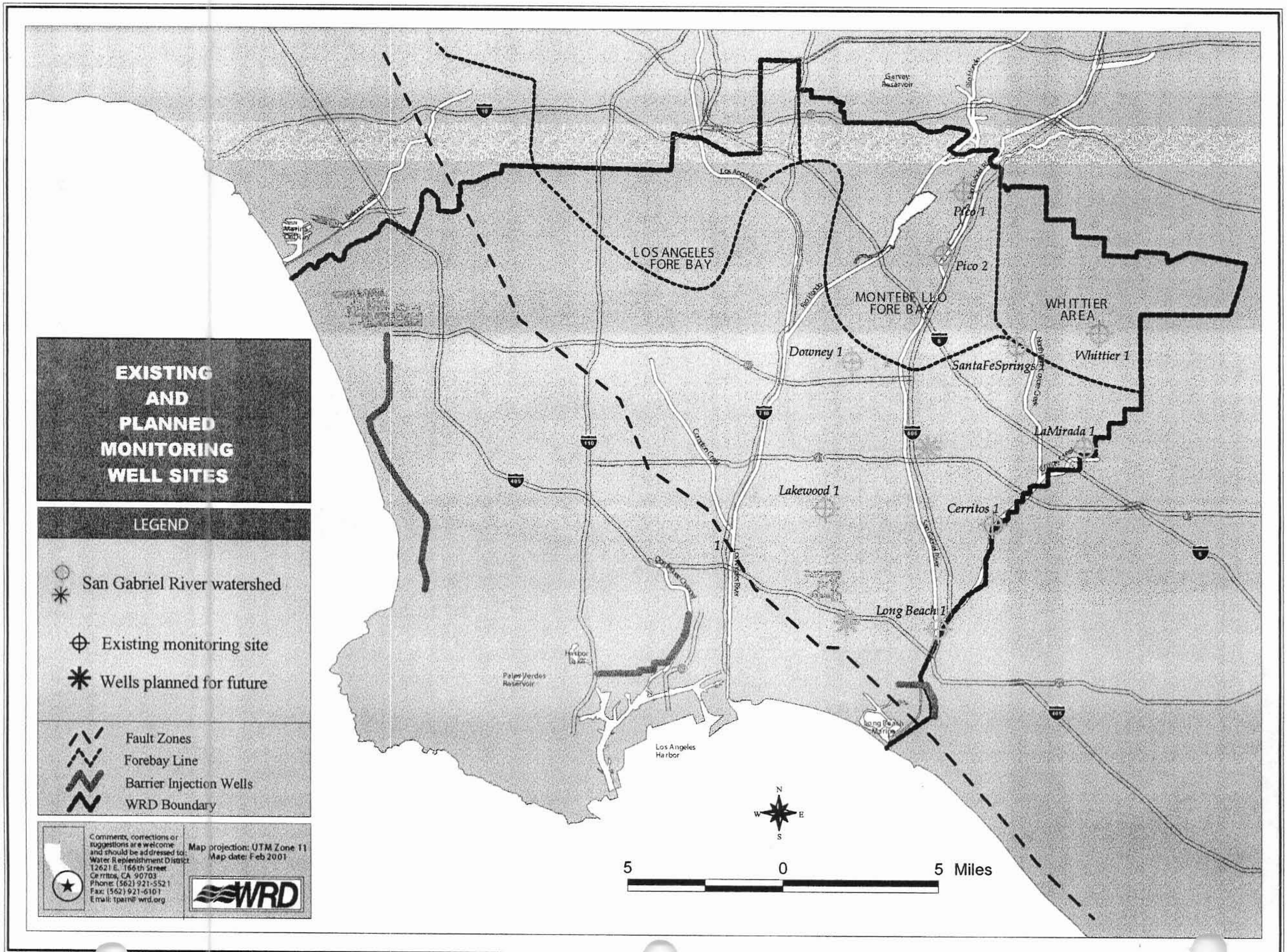
P — Pressure Gage

S2 — Sampling Port

F — Flow Meter Totalizer

SCHEMATIC DIAGRAM OF PORTABLE GRANULAR ACTIVATED CARBON TREATMENT SYSTEM

Figure 2


EXISTING AND PLANNED MONITORING WELL SITES
LEGEND
San Gabriel River watershed
Existing monitoring site
Wells planned for future
Fault Zones
Forebay Line
Barrier Injection Wells
WRD Boundary
Comments, corrections or suggestions are welcome and should be addressed to: Water Replenishment District 12621 E. 166th Street Cerritos, CA 90703 Phone: (562) 921-5521 Fax: (562) 921-6101 Email: tparr@wrd.org
Map projection: UTM Zone 11
Map date: Feb 2001
WRD
LOS ANGELES FORE BAY
MONTEBELLO FORE BAY
WHITTIER AREA
Pico 1
Pico 2
Whittier 1
SantaFeSprings
Downey 1
LaMirada 1
Lakewood 1
Cerritos 1
Long Beach 1
Garvey Reservoir
Los Angeles Harbor
Palos Verdes Reservoir
5
0
5 Miles

State of California
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM NO. 8339
for
U.S. GEOLOGICAL SURVEY – LOS ANGELES BASIN
(NPDES NO. CAG994002)

I. REPORTING REQUIREMENTS

A. The Discharger shall implement this monitoring program on the effective date of coverage under this permit. The Discharger shall submit monitoring reports to this Regional Board by the dates in the following schedule:

Reporting Period	Report Due
January – March	April 15
April – June	July 15
July – September	October 15
October – December	January 15
Annual Summary Report	March 15

B. The first monitoring report under this Program is due by April 15, 2002. If there is no discharge during any reporting period, the report shall so state. The annual summary report shall contain a discussion of the previous year's effluent monitoring data, as well as graphical and tabular summaries of the data, and must be received by March 15, of each year.

C. All monitoring reports shall include discharge limitations in the Order, tabulated analytical data, the chain of custody form, the analytical laboratory report (including, but not limited to, date and time of sampling, date of analyses, method of analysis, and detection limits), and discharge certification statement.

D. Before commencing any discharge, a representative sample shall be analyzed, and the test results must meet all discharge limitations stated in Part E of Order No. 97-043.

II. SAMPLE COLLECTION REQUIREMENTS

A. Daily samples shall be collected each day.
B. Weekly samples shall be collected on a representative day of each week.
C. Monthly samples shall be collected on a representative day of each month.
D. Quarterly samples shall be collected in February, May, August, and November.
E. Semi-annual samples shall be collected in May and November.
F. Annual samples shall be collected in November.

III. EFFLUENT MONITORING REQUIREMENTS

A. Sampling stations shall be established for each point of discharge and shall be located where representative samples of that effluent can be obtained. The discharger shall notify this Regional Board in writing of the location(s) of the sampling stations once established. Provisions shall be made to enable visual inspection before discharge. If oil sheen, debris, and/or other objectionable materials or odors are present, discharge shall not be commenced before compliance with the requirements is demonstrated. All visual observations shall be included in the monitoring report.

B. If monitoring result indicates an exceedance of a limit contained in Order 97-043, the discharge shall be terminated and shall only be resumed after remedial measures have been implemented and full compliance with the requirements has been ascertained.

C. In addition, as applicable, following the effluent limit exceedance, the discharger shall implement the following accelerated monitoring program:

1. Monthly monitoring shall be increased to weekly monitoring;
2. Quarterly monitoring shall be increased to monthly monitoring; and
3. Semi-annually monitoring shall be increased to quarterly.

If three consecutive accelerated monitoring events demonstrate full compliance with effluent limits, then the discharger may return to the regular monitoring frequency, with the approval of the Executive Officer of the Regional Board.

D. The following shall constitute the discharge monitoring program:

Constituent	Unit	Type of Sample	Minimum Frequency of Analysis
Total Waste Flow	gal/day	recorder	Continuously
Temperature	°F	grab	once per discharge event
pH	pH units	grab	once per discharge event
Total Suspended Solids	mg/L	grab	once per discharge event
Turbidity	mg/L	grab	once per discharge event
BOD_5 20°C	mg/L	grab	once per discharge event
Oil and Grease	mg/L	grab	once per discharge event
Settleable Solids	ml/L	grab	once per discharge event
Sulfides	mg/L	grab	once per discharge event
Phenols	mg/L	grab	once per discharge event
Phenolic Compounds (chlorinated)	µg/L	grab	once per discharge event
Residual Chlorine	mg/L	grab	once per discharge event

Constituent	Unit	Type of Sample	Minimum Frequency of Analysis
Benzene	µg/L	grab	once per discharge event
Toluene	µg/L	grab	once per discharge event
Ethylbenzene	µg/L	grab	once per discharge event
Xylene	µg/L	grab	once per discharge event
Ethylene Dibromide	µg/L	grab	once per discharge event
Carbon Tetrachloride	µg/L	grab	once per discharge event
Tetrachloroethylene	µg/L	grab	once per discharge event
Trichloroethylene	µg/L	grab	once per discharge event
1,4-dichlorobenzene	µg/L	grab	once per discharge event
1,1-dichloroethene	µg/L	grab	once per discharge event
1,2-dichloroethane	µg/L	grab	once per discharge event
1,1-dichloroethylene	µg/L	grab	once per discharge event
Vinyl Chloride	µg/L	grab	once per discharge event
Methyl Tertiary Butyl Ether	µg/L	grab	once per discharge event
Arsenic	µg/L	grab	Annually
Cadmium	µg/L	grab	Annually
Chromium	µg/L	grab	Annually
Copper	µg/L	grab	Annually
Lead	µg/L	grab	Annually
Mercury	µg/L	grab	Annually
Selenium	µg/L	grab	Annually
Silver	µg/L	grab	Annually

IV. GENERAL PROVISIONS FOR REPORTING

A. The Discharger shall inform this Regional Board 24 hours before the start of the discharge.

B. Each monitoring report must affirm in writing that: "All analyses were conducted at a laboratory certified for such analyses by the California Department of Health Services, and in accordance with current U.S. EPA guideline procedures or as specified in this Monitoring Program."

C. Samples must be analyzed within allowable holding time as specified in 40 CFR Part 136.3. All Quality Assurance/Quality Control (QA/QC) analyses should be performed on the same dates when samples are actually analyzed and documentation shall accompany the laboratory reports.

D. The monitoring report shall specify the USEPA analytical method used, the Method Detection Limit (MDL) and the Minimum Level (ML)[2] (Refer to Appendix I) for each pollutant. For the purpose of reporting compliance with numerical limitations, performance goals, and receiving water limitations, analytical data shall be reported with one of the following methods, as the case may be:

1. An actual laboratory measured value for sample results greater than or equal to the ML; or

2. "Detected, but Not Quantified (DNQ)" if results are greater than or equal to the laboratory's MDL but less than the ML. The estimated[3] chemical concentration of the sample shall also be reported; or

3. "Not-Detected (ND)" for sample results less than the laboratory's MDL with the MDL indicated for the analytical method used.

The ML employed for an effluent analysis shall be lower than the permit limit established for a given parameter, unless the Discharger can demonstrate that a particular ML is not attainable and obtains approval for a higher ML from the Executive Officer. At least once a year, the Discharger shall submit a list of the analytical methods employed for each test and associated laboratory QA/QC procedures.

V. NOTIFICATION

A. The Discharger shall notify the Executive Officer in writing prior to discharge of any chemical that may be toxic to aquatic life. Such notification shall include:

1. Name and general composition of the chemical,
2. Frequency of use,
3. Quantities to be used,
4. Proposed discharge concentrations, and
5. EPA registration number, if applicable.

No discharge of such chemical shall be made prior to obtaining the Executive Officer's approval.

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[2] The minimum levels are those published by the State Water Quality Control Board in the Policy for the Implementation of Toxic Standards for Inland Surface Water, Enclosed Bays, and Estuaries of California, March 2, 2000. See attached Appendix I.

[3] Estimated chemical concentration is the estimated chemical concentration that results from the confirmed detection of the substance by the analytical method below the ML value.

B. The discharger shall notify the Regional Board via telephone and/or fax within 24 hours of noticing an exceedance above the effluent limits in Order No. 97-043. The discharger shall provide to the Regional Board within 14 days of observing the exceedance a detailed statement of the actions undertaken or proposed that will bring the discharge into full compliance with the requirements and submit a timetable for correction.

VI. MONITORING FREQUENCIES

Monitoring frequencies may be adjusted by the Executive Officer to a less frequent basis if the Discharger requests same and the request is backed by statistical trends of monitoring data submitted.

Ordered by: Dennis A. Dickerson
Executive Officer

Date: December 19, 2001

APPENDIX I

SWRCB Minimum Levels in ppb (µg/L)

The Minimum Levels (MLs) in this appendix are for use in reporting and compliance determination purposes in accordance with section 2.4 of this Policy. These MLs were derived from data for priority pollutants provided by State certified analytical laboratories in 1997 and 1998. These MLs shall be used until new values are adopted by the SWRCB and become effective. The following tables (Tables 2a - 2d) present MLs for four major chemical groupings: volatile substances, semi-volatile substances, inorganics, and pesticides & PCBs.

Table 2a - VOLATILE SUBSTANCES*	GC	GCMS
1,1 Dichloroethane	0.5	1
1,1 Dichloroethene	0.5	2
1,1,1 Trichloroethane	0.5	2
1,1,2 Trichloroethane	0.5	2
1,1,2,2 Tetrachloroethane	0.5	1
1,2 Dichlorobenzene (volatile)	0.5	2
1,2 Dichloroethane	0.5	2
1,2 Dichloropropane	0.5	1
1,3 Dichlorobenzene (volatile)	0.5	2
1,3 Dichloropropene (volatile)	0.5	2
1,4 Dichlorobenzene (volatile)	0.5	2
Acrolein	2.0	5
Acrylonitrile	2.0	2
Benzene	0.5	2
Bromoform	0.5	2
Bromomethane	1.0	2
Carbon Tetrachloride	0.5	2
Chlorobenzene	0.5	2
Chlorodibromo-methane	0.5	2
Chloroethane	0.5	2
Chloroform	0.5	2
Chloromethane	0.5	2
Dichlorobromo-methane	0.5	2
Dichloromethane	0.5	2
Ethylbenzene	0.5	2
Tetrachloroethene	0.5	2
Toluene	0.5	2
trans-1,2 Dichloroethylene	0.5	1
Trichloroethene	0.5	2
Vinyl Chloride	0.5	2

*The normal method-specific factor for these substances is 1, therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance.

Table 2b - SEMI-VOLATILE SUBSTANCES*	GC	GCMS	LC	COLOR
1,2 Benzanthracene	10	5		
1,2 Dichlorobenzene (semivolatile)	2	2		
1,2 Diphenylhydrazine		1		
1,2,4 Trichlorobenzene	1	5		
1,3 Dichlorobenzene (semivolatile)	2	1		
1,4 Dichlorobenzene (semivolatile)	2	1		
2 Chlorophenol	2	5		
2,4 Dichlorophenol	1	5		
2,4 Dimethylphenol	1	2		
2,4 Dinitrophenol	5	5		
2,4 Dinitrotoluene	10	5		
2,4,6 Trichlorophenol	10	10		
2,6 Dinitrotoluene		5		
2- Nitrophenol		10		
2-Chloroethyl vinyl ether	1	1		
2-Chloronaphthalene		10		
3,3' Dichlorobenzidine		5		
3,4 Benzofluoranthene		10	10	
4 Chloro-3-methylphenol	5	1		
4,6 Dinitro-2-methylphenol	10	5		
4- Nitrophenol	5	10		
4-Bromophenyl phenyl ether	10	5		
4-Chlorophenyl phenyl ether		5		
Acenaphthene	1	1	0.5	
Acenaphthylene		10	0.2	
Anthracene		10	2	
Benzidine		5		
Benzo(a) pyrene(3,4 Benzopyrene)		10	2	
Benzo(g,h,i)perylene		5	0.1	
Benzo(k)fluoranthene		10	2	
bis 2-(1-Chloroethoxyl) methane		5		
bis(2-chloroethyl) ether	10	1		
bis(2-Chloroisopropyl) ether	10	2		
bis(2-Ethylhexyl) phthalate	10	5		
Butyl benzyl phthalate	10	10		
Chrysene		10	5	
di-n-Butyl phthalate		10		
di-n-Octyl phthalate		10		
Dibenzo(a,h)-anthracene		10	0.1	
Diethyl phthalate	10	2		
Dimethyl phthalate	10	2		
Fluoranthene	10	1	0.05	
Fluorene		10	0.1	
Hexachloro-cyclopentadiene	5	5		

Table 2b - SEMI-VOLATILE SUBSTANCES*	GC	GCMS	LC	COLOR
Hexachlorobenzene	5	1		
Hexachlorobutadiene	5	1		
Hexachloroethane	5	1		
Indeno(1,2,3,cd)-pyrene		10	0.05	
Isophorone	10	1		
N-Nitroso diphenyl amine	10	1		
N-Nitroso-dimethyl amine	10	5		
N-Nitroso -di n-propyl amine	10	5		
Naphthalene	10	1	0.2	
Nitrobenzene	10	1		
Pentachlorophenol	1	5		
Phenanthrene		5	0.05	
Phenol **	1	1		50
Pyrene		10	0.05	

* With the exception of phenol by colorimetric technique, the normal method-specific factor for these substances is 1000, therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance multiplied by 1000.

** Phenol by colorimetric technique has a factor of 1.

Table 2c – INORGANICS*	FAA	GFAA	ICP	ICPMS	SPGFAA	HYDRIDE	CVAA	COLOR	DCP
Antimony	10	5	50	0.5	5	0.5			1000
Arsenic		2	10	2	2	1		20	1000
Beryllium	20	0.5	2	0.5	1				1000
Cadmium	10	0.5	10	0.25	0.5				1000
Chromium (total)	50	2	10	0.5	1				1000
Chromium VI	5							10	
Copper	25	5	10	0.5	2				1000
Cyanide								5	
Lead	20	5	5	0.5	2				10,000
Mercury				0.5			0.2		
Nickel	50	5	20	1	5				1000
Selenium		5	10	2	5	1			1000
Silver	10	1	10	0.25	2				1000
Thallium	10	2	10	1	5				1000
Zinc	20		20	1	10				1000

* The normal method-specific factor for these substances is 1, therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance.

Table 2d - PESTICIDES - PCBs*	GC
4,4'-DDD	0.05
4,4'-DDE	0.05
4,4'-DDT	0.01
a-Endosulfan	0.02
a-Hexachloro-cyclohexane	0.01
Aldrin	0.005
b-Endosulfan	0.01
b-Hexachloro-cyclohexane	0.005
Chlordane	0.1
d-Hexachloro-cyclohexane	0.005
Dieldrin	0.01
Endosulfan Sulfate	0.05
Endrin	0.01
Endrin Aldehyde	0.01
Heptachlor	0.01
Heptachlor Epoxide	0.01
Lindane(g-Hexachloro-cyclohexane)	0.02
PCB 1016	0.5
PCB 1221	0.5
PCB 1232	0.5
PCB 1242	0.5
PCB 1248	0.5
PCB 1254	0.5
PCB 1260	0.5
Toxaphene	0.5

* The normal method-specific factor for these substances is 100, therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance multiplied by 100.

Techniques:

GC - Gas Chromatography
GCMS - Gas Chromatography/Mass Spectrometry
HRGCMS - High Resolution Gas Chromatography/Mass Spectrometry (i.e., EPA 1613, 1624, or 1625)
LC - High Pressure Liquid Chromatography
FAA - Flame Atomic Absorption
GFAA - Graphite Furnace Atomic Absorption
HYDRIDE - Gaseous Hydride Atomic Absorption
CVAA - Cold Vapor Atomic Absorption
ICP - Inductively Coupled Plasma
ICPMS - Inductively Coupled Plasma/Mass Spectrometry
SPGFAA - Stabilized Platform Graphite Furnace Atomic Absorption (i.e., EPA 200.9)
DCP - Direct Current Plasma
COLOR - Colorimetric